

Agilent Millipede Probes

Data Sheet

Introduction

The Agilent Millipede coil allows the use of high-field vertical magnets for imaging. It makes efficient use of space inside the magnet, which is critical for micro-imaging applications, particularly preclinical studies.

Key Benefits

- **Interpret data accurately**—The unique Millipede design reduces the intensity of flip-angle related image artifacts, eliminating error in data interpretation.
- **Get results faster**—Optimized circuit design coupled with quadrature detection yields superior signal-to-noise ratio, reducing the acquisition time.
- Image a variety of sample sizes—Improved RF homogeneity allows placing samples closer to the coil edges, enabling imaging of samples as large as rodents in a vertical bore magnet.





Specifications and Ordering Information

¹H Millipede probe specifications and product numbers are summarized in Table 1. Agilent Technologies also provides a variety of double-tuned Millipede probes upon special request. Contact your local Agilent sales representative for pricing and probe availability.

Table 1

1 Millipede Probe Specifications and Product Numbers.

Frequency MHz	Clean id mm	od mm	Pw90** us	S/N*	Part number
300	20	55	35	150:1	S192255100
300	30	55	50	150:1	S192255500
300	40	55	100	80:1	S190893500
400	20	55	35	200:1	S192255200
400	30	55	50	200:1	S192255600
400	40	55	100	100:1	S190896200
500	20	55	35	250:1	S192255300
500	30	55	50	250:1	S192255700
500	40	55	100	120:1	S190896500
600	20	55	35	300:1	S192255400
600	30	55	50	300:1	S192255800
600	40	55	100	150:1	\$190896800

^{*}Signal to noise (S/N) was determined using a polypropylene sphere filled with 0.005 M $CuSO_4$ aqueous solution. Measurement parameters are 50 mm \times 50 mm FOV with 38 mm sphere (40 mm probe), 25 mm sphere (30 mm probe), and 30 mm \times 30 mm FOV with 13 mm sphere (20 mm probe).

For all the above probes, the homogenous region is 80% of the coil id.

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Product specifications and descriptions in this document are subject to change without notice.

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^{**}Requires system configured with 100 W high band amplifier. Measured with mineral oil sample: 32 mm id (40 mm probe), 24 mm id (30 mm probe), and 16 mm id (20 mm probe).